

Brock A. Beamer, M.D.

Personal Information

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Signed:

Date: 0x/0x/2024

Education and Training

1986	B.A.	Kent State University	Chemistry
1987	no degree	Kennedy Institute of Ethics at Georgetown University	Bioethics
1991	M.D.	The Johns Hopkins University School of Medicine	Medicine

Post Graduate Education and Training

1991 – 1994	Internship & Residency	University of California at Los Angeles San Fernando Valley Program in Internal Medicine, at UCLA/Los Angeles County Olive View Medical Center and Sepulveda Veterans Affairs Medical Center	Internal Medicine
1994 – 1995	Chief Residency	JHU-SOM, Division of Geriatric Medicine and Gerontology	Geriatrics
1995 – 1997	Fellowship		

Certification

1994 ABIM Board Certification in Internal Medicine
1998 ABIM Diplomate in Geriatric Medicine

Medical Licensures

Maryland Medical License
DEA Controlled Substance Registration

Employment History

1997 – 1998	Instructor of Medicine Division of Geriatric Medicine and Gerontology Johns Hopkins School of Medicine
1997 – 2000	Clinical Instructor in Medicine Endocrinology Division University of Maryland School of Medicine
1998 – 2008	Assistant Professor of Medicine Division of Geriatric Medicine and Gerontology Johns Hopkins School of Medicine
2000 – 2003	Adjunct Assistant Professor of Medicine Endocrinology Division University of Maryland School of Medicine
2008 – present	Assistant Professor of Medicine

Division of Gerontology, Geriatrics and Palliative Medicine
University of Maryland School of Medicine

Professional Memberships

American Geriatrics Society
Gerontological Society of America

Honors and Awards

1982 Valedictorian, Arcadia Local School, Arcadia, OH
1985 Phi Beta Kappa National Honorary
1986 Omicron Delta Kappa National Academic/Leadership Honorary
1986 University Honors, Honors College of Kent State University; thesis on Medical Ethics
1986 Summa cum laude, Kent State University
1986 University Fellowship, Georgetown University
1988 Torrison Scholarship for Medical Education, The Evangelical Lutheran Church in America
1989 Hartford Scholar (Medical Student) Award for Geriatric Research, John A. Hartford Foundation
1993 Most Humanistic Houseofficer, UCLA-SFVP
1994 Sepulveda VAMC Blue PACE Recognition Award for Excellence in Leadership,
1994 Certificate of Commendation (for response to Northridge Earthquake), Dept. of Veterans Affairs
1994 Internal Medicine Resident of the Year, UCLA-SFVP
1998 Brookdale National Fellowship, Brookdale Foundation
2000 Paul Beeson Physician Faculty Scholars Award, American Federation for Aging Research
2016, 2019, 2021 UM DOM Geriatrics Division Teacher of the Year

Administrative Service

Institutional Service

Clinical

Geriatrics, Clinic and/or Consult Attending, variable (0-15 day/month) [1997-present]
Internal Medicine, Ward Attending, 1-2 month per year [1994-5; 1997-2022]
Geriatrics, Subacute Unit Attending (chronic hospital, ventilator, skilled units, GEMU), 1-4 month/year [1997-2019]
Geriatrics, On Call Attending, variable (4-6 week/year) [1997-2008]
Geriatrics, Nursing Home Attending (variable panels of 10-40 pt.) [1997-2008]
Hip Fracture Consult Service (1-2 months per year) [1997-2008]

Clinical Research : Medical Officer / PI / Site PI

2022-2025 Reducing Fall Risk with the use of Neuromuscular Electrical Stimulation to Maximize the Hip Abductor Muscles in Older Veterans VA Merit 1101RX003484; PI Addison
2022-2028 A Diet Intervention Study To Mitigate Fatigue Symptoms And To Improve Muscle And Physical Function In Older Adults With Post-Acute COVID-19 Syndrome; K Award; PI GBigman
2018-2024 (NCE): HIPS Hip Muscle Power, Lateral Balance Function, and Falls in Aging; R01 AG060051-01; PI Gray
2018-2019 Treatment of Periodontitis to Prevent Dementia in Older Adults with Asymptomatic Carotid Artery Stenosis and Mild Cognitive Impairment : ADRD Supplement:

P30 AG028747-13S2 ; PI Magaziner

2010-2016 Intervention to Enhance Lateral Balance Function and Prevent Falls in Aging; R01 AG033607; PI Rogers

2022-2023 - An Engineering-Based Balance Assessment and Training Platform; VA Spire Award I21-RX003020; PI Barton

2022-2023 Virtual reality cognitive-motor training to enhance balance and reduce fall risk in older adults. PI SConroy

2022-2024 A Balanced Reach Training Platform to Address Balance Disorders in Older Veterans; VA Merit Award RX003096; PI Barton

2020-2024 - Promotion of Successful Weight Management in Overweight and Obese Veterans; Source: VA Merit Award; PI Ryan

2022-2025 - Balance Reach Training to Address Balance Disorders in Older People with Stroke; NIDILRR RERC Award; PI Barton

2020-2024 Effects of 12-weeks of High-intensity Resistance Aerobic Circuit Exercise Training on Epigenetic Aging and Inflammation in Older HIV-infected Veterans; PI Ryan

2020-2024 A Feasibility and Pilot Study of Combined Treatment Protocol using Aerobic Exercise and Duloxetine in Older Adults with Symptomatic Knee Osteoarthritis and Comorbid Depression; K Award; PI Rathbun

2019-2023 CAPS Increasing muscle capillarization to enhance responses to strength training in sarcopenia ; ; PI Prior; R21 AG064571

2018-2021 Combining Testosterone Therapy and Exercise to Improve Function Post Hip Fracture; R01 AG051647; PI Magaziner

2016-2020 Effects of Multi-Modal Exercise Intervention Post Hip Fracture: Protein Supplement Substudy; 4R37 AG009901; PI Magaziner

2015-2017 Protective Balance and Startle Responses to Sudden Drop Perturbations in Aging; R21AG049615; PI Rogers

2010-2016 Community Ambulation Following Hip Fracture; R01AG035009; PI Magaziner

2011-2016 Effects of Multi-Modal Exercise Intervention Post Hip Fracture; PI Magaziner; 4R37 AG009901

2009-present Various studies including many above; Performed or supervised 550 exercise treadmill tests with VO2 assessment ("CPET"); 75 muscle biopsy; >1000 medical screenings for enrollment, monitoring of subject safety during testing and training (resistance, aerobic, balance), regulatory reporting for AE.

1997-2008 Various studies; Recruited 5400 subjects for genetic studies on diabetes and obesity; Performed or supervised 350 IVGTT for studies on glucose metabolism in subjects with gene variants and/or sleep apnea

Institutional Administrative Appointments

2000 – 2008 GCRC Advisory Committee, JHBMC General Clinical Research Center

2000 – 2008 Residency Selection Committee, JHBMC Department of Internal Medicine

2000 – 2003 Advisory Group on Colleagueship among Men and Women, JHU Dept. of Medicine

2002 – 2006 Dean's Committee for Faculty Development and Gender, JHU SOM

2006 – 2008 Joint Oversight Committee on Faculty Development and Gender, JHU SOM

2008 – 2008 Committee for Worklife Enhancement, JHU Dept of Medicine

2012 – 2019 Data Safety Monitoring Board (DSMB), MiACT study; R01_HL104193; PI: TPollin

2012 – 2019 GRECC Internal DSMB Subcommittee, Baltimore VAMC

2012 – 2014 UM School of Medicine Council

2015 – 2022	Preventive Ethics Committee, VAMHCS
2016 – 2019	Internal DSMB, UMB Older Americans Independence Center
2019 – present	Safety Officer, UMB Older Americans Independence Center
2019 – present	Data Safety Monitoring Board, UM SOM, Department of Physical Medicine and Rehabilitation
2022 – present	DSMB for TRIAD study; PI ARyan

Local and National Service

Advisory Committees, Review Groups

1999 – 2004	Steering Committee for the Special Interest Group for Junior Research Faculty of the American Geriatrics Society
2000 – 2003	Junior Faculty Liaison to American Geriatrics Society Research Council
2002 – 2012	American Federation for Aging Research National Scientific Advisory Committee
2004 – present	Annual Meeting Abstract Reviewer, American Geriatrics Society
2004 – 2012	Student and Fellow Grant Reviewer, American Federation for Aging Research
2007 – 2012	Fellowship Grant Reviewer, The Brookdale Foundation
2005 - 2005	National Institutes of Health, Center for Scientific Review, Aging Systems and Geriatrics Study Section
2010 – present	Applicant Reviewer for Summer Student UM NORC and SPORT programs
2012 – 2015	Baltimore County Department on Aging, Falls Prevention Workgroup
2012 – 2022	Maryland Dept Health and Mental Hygiene, Falls Advisory Board / Fall Prevention Coalition
2013 – 2014	Gerontologic Society of America representative to American College of Physicians Council of Subspecialty Societies
2013 – 2022	Data Safety Monitoring Board, JHU Older Americans Independence Center

Editorial Activities: As of 2016, on no editorial boards; Within past 5 years, ad hoc reviews for:

Journal of Gerontology Medical Sciences, Washington, DC, USA
Journal of Gerontology Biological Sciences, Washington, DC, USA
Annals of Internal Medicine, Philadelphia, PA, USA
The Gerontologist, Philadelphia, PA, USA
Seminars in Arthritis and Rheumatism, New York, NY
Journal of Applied Gerontology, Thousand Oaks, CA
BMC Geriatrics, BioMed Central, UK
Journal of the American Medical Directors Association, Cary, NC

Teaching Service

Clinical Instruction

1994 – 1995	Housestaff Medical Clinics @ UCLA-OVMC & UCLA-SVAMC, Attending
1994 – 1995	Medical Wards @ UCLA-OVMC, Attending
1997 – 2008	Medical Wards @ JHBMC, Attending
1997 – 2008	JHU Geriatric Fellowship Clinics (Primary Care; Assessment; Housecall), Attending
2008 - 2022	Medical Wards at Baltimore VAMC, Attending for UM Residents, Students
2008 - present	UM Geriatric Fellowship Clinics, Inpatient, and Consult Services

Classroom Instruction

1986 – 1987	Introduction to Philosophy at Georgetown Univ., Teaching Assistant
1994 – 1995	Morning Report and noon conferences (daily), Grand Rounds (weekly), Morbidity and Mortality Conferences (biweekly), medical student & house staff sessions at UCLA-OVMC & UCLA-SVAMC; Organizer/Instructor/Lecturer/Discussion Leader
1994 – 1995	Clinical Skills Course, UCLA School of Medicine Instructor
1996 – 2004	Evidence Based Medicine Course for Internal Medicine Interns, JHBMC; "Advance Directives" (5 sessions each), Spring Instructor
1997 – 2008	JHU Geriatric Fellowship morning reports, journal clubs, lecture series (including 3-part "Molecular Biology for Geriatricians"); Lecturer/Discussion Leader
2000 – 2008	Journal Club for First Year Medical Students, JHU-SOM, (weekly); Moderator
2011 – 2021	Clinical Skills instructor, Year 1-2 Medical Students, UMB (weekly)
2011 – present	ad hoc Lectures for undergraduate, graduate, medical trainees, UMB, UMBC

Publications

Peer-reviewed Scientific Articles

1. Bennett RG, Beamer BA, Greenough WB 3d, Lindenbaum J, Bartlett JG. Colonization with digoxin-reducing strains of *Eubacterium lendum* and *Clostridium difficile* infection in nursing home patients. *Journal of Diarrhoeal Diseases Research*, 1992; 10(2):87-92.
2. Finucane TE, Beamer BA, Roca RP, Kawas CH. Establishing advance medical directives with demented patients: a pilot study. *Journal of Clinical Ethics*, 1993; 4(1):51-4.
3. Beamer BA, Negri C, Yen C-J, Gavrilova O, Rumberger JM, Durcan MJ, Yarnall DP, Hawkins AL, Griffin CA, Burns DK, Roth J, Reitman M, Shuldiner AR. Chromosomal localization and partial genomic structure of the human peroxisome proliferator activated receptor-gamma (hPPAR- γ) gene. *Biochemical and Biophysical Research Communications*, 1997; 233:756-759.
4. Beamer BA, Yen C-J, Negri C, Silver K, Brown KA, Yarnall DP, Burns DK, Roth J, Shuldiner AR. Molecular scanning of the human peroxisome proliferator activated receptor gamma (hPPAR- γ) gene in obese Caucasians: identification of a Pro12Ala PPAR- γ 2 missense mutation. *Biochemical and Biophysical Research Communications*, 1997; 241:270-274.
5. Mori Y, Kim-Motoyama H, Katakura T, Yasuda K, Kadowaki H, Beamer BA, Shuldiner AR, Akanuma Y, Yazaki Y, Kadowaki T. Effect of the Pro12Ala Variant of the Peroxisome Proliferator Activated Receptor - γ 2 Gene on Adiposity, Fat Distribution, and Insulin Sensitivity. *Biochemical and Biophysical Research Communications*, 1998; 251:195-198.
6. Beamer BA, Yen C-J, Andersen RE, Muller D, Elahi D, Andres R, Roth J, Shuldiner AR. Association of the Pro12Ala Variant in the Peroxisome Proliferator Activated Receptor- γ 2 (PPAR γ 2) Gene with Obesity in two Caucasian Populations. *Diabetes* 1998; 47:1806-1808.
7. Shuldiner AR, Nguyen W, Kao WHL, Beamer BA, Andersen RE, Pratley R, Brancati FL. Pro115Gln Peroxisome Proliferator Activated Receptor-gamma (Pro115Gln PPAR- γ) and Obesity. *Diabetes Care*, 2000; 23:126-127.

8. Clement K, Hercberg S, Passinge B, Galan P, Varroud-Vial M, Shuldiner AR, Beamer BA, Charpentier G, Guy-Grand B, Froguel P, Vaisse C. The Pro115Gln and Pro12Ala PPAR gamma gene mutations in obesity and type 2 diabetes. *International Journal of Obesity and Related Metabolic Disorders*, 2000; 24(3):391-393.
9. Cole SA, Mitchell BD, Hsueh W-C, Pineda P, Beamer BA, Shuldiner AR, Comuzzie AG, Blangero J, Hixson JE. The Pro12Ala Variant of Peroxisome Proliferator-Activated Receptor- γ 2 (PPAR- γ 2) is Associated with Measures of Obesity in Mexican Americans. *International Journal of Obesity and Related Metabolic Disorders*, 2000; 24(4):522-524.
10. Globerman H, Zauberman Y, Makarov T, Beamer BA, Yen C-J, Shuldiner AR, Harel C, Karnieli E. Analysis of the Peroxisome Proliferator Activated Receptor- γ (PPAR- γ) Gene in HAIRAN Syndrome with Obesity. *Clinical Endocrinology*, 2000; 52(4):479-485.
11. Walston JW, Silver K, Hilfiker H, Andersen RE, Seibert M, Beamer B, Roth J, Poehlman E, Shuldiner AR. Insulin Response to Glucose is Lower in Individuals Homozygous for the Arg 64 Variant of the β -3-Adrenergic Receptor. *The Journal of Clinical Endocrinology and Metabolism*, 2000; 85(11):4019-4022.
12. Kazlauskaitė R, Santomauro AT, Goldman J, Silver K, Snitker S, Beamer BA, Yen C-J, Shuldiner AR, Wajchenberg BL. A Case of Congenital Generalized Lipodystrophy: Metabolic Effects of Four Dietary Regimens. Lack of Association of CGL with Polymorphism in Lamin A/C Gene. *Clinical Endocrinology*, 2001; 54(3):412-212.
13. Hsueh W-C, Cole SA, Shuldiner AR, Beamer BA, Blangero J, Comuzzie AG, Hixson JE, MacCluer JW, Mitchell BD. Interactions between variants in the β 3-adrenergic receptor and peroxisome proliferator-activated receptor- γ 2 genes on obesity. *Diabetes Care*, 2001; 24(4):672-7.
14. Blumenthal JB, Andersen RE, Mitchell B, Seibert MJ, Yang H, Herzog H, Beamer BA, Franckowiak SC, Walston JD. Novel Neuropeptide Y1 and Y5 Receptor Gene Variants: Associations with Serum Triglyceride and High Density Lipoprotein Cholesterol Levels. *Clinical Genetics*, 2002; 62(3):196-202.
15. Walston J, Andersen RE, Seibert M, Hilfiker H, Beamer B, Blumenthal J, Poehlman ET. Arg64 beta3-adrenoceptor variant and the components of energy expenditure. *Obes Res*. 2003 Apr;11(4):509-11. PubMed PMID: 12690078.
16. Muller YL, Bogardus C, Beamer BA, Shuldiner AR, Baier LJ. A functional variant in the peroxisome proliferator-activated receptor gamma2 promotor is associated with predictors of obesity and type 2 diabetes in Pima Indians. *Diabetes*, 2003; 52(7):1864-71.
17. Punjabi NM, Ahmed MM, Polotsky VY, Beamer BA, O'Donnell CP. Sleep-disordered breathing, glucose intolerance and insulin resistance. *Respiratory Physiology and Neurobiology*, 2003; 136:167-178.
18. Walston J, Arking DE, Fallin D, Li T, Beamer B, Xue Q, Ferrucci L, Fried LP, Chakravarti A. IL-6 Gene Variation is Not Associated with Increased Serum Levels of IL-6, Muscle, Weakness, or Frailty in Older Women. *Experimental Gerontology*, 2005; 40(4):344-352.
19. Arking, DE, Fallin DM, Li T, Beamer BA, Xue QL, Fried LP, Chakravarti A, Walston JD.

Variation in the Ciliary Neurotrophic Factor Gene and Muscle Strength in Older Caucasian Women. *J Am Geriatr Soc*, 2006; 54(5):823-6.

20. Schwartz AV, Sellmeyer DE, Vittinghoff E, Palermo L, Lecka-Czernik B, Feingold KR, Strotmeyer ES, Resnick HE, Carbone L, Beamer BA, Park SW, Lane NE, Harris TB, Cummings SR. Thiazolidinedione use and bone loss in older diabetic adults. *J Clin Endocrinol Metab*. 2006; 91(9):3349-54. PMID: 16608888
21. Punjabi NM, Beamer BA. C-reactive Protein Associates with Sleep-disordered Breathing Independent of Adiposity. *Sleep*. 2007;30(1):29-34. PMID: 17310862
22. Punjabi NM, Beamer B, Jain A, Spencer ME, Fedarko N. Elevated Levels of neopterin in sleep-disordered breathing. *Chest* 2007; 132:1124-1130. PMID: 17646222
23. Yaffe K, Kanaya AM, Lindquist K, Hsueh WC, Cummings SR, Beamer B, Newman A, Rosano C, Li R, Harris T; for the Health ABC Study. PPAR-gamma Pro12Ala genotype and risk of cognitive decline in elders. *Neurobiol Aging*, 2008; 29(1):78-83. PMID: 17052804
24. Nalls MA, Wilson JB, Patterson NJ, Tandon A, Zmuda JM, Huntsman S, Garcia M, Hu D, Li R, Beamer BA, Patel KV, Akylbekova EL, Files JC, Hardy CL, Buxbaum SG, Taylor HA, Reich D, Harris TB, Ziv E. Admixture mapping of white cell count: genetic locus responsible for higher white blood cell count in European Americans than African Americans in the Health, Aging and Body Composition Study and the Jackson Heart Study. *American Journal of Human Genetics*, 2008; 82(1):81-7. PMID: 18179887
25. Walston J, Fedarko N, Yang H, Leng S, Beamer B, Espinoza S, Lipton A, Zheng H, Becker K. The Physical and Biological Characterization of a Frail Mouse Model. *J Gerontol A Biol Sci Med Sci*, 2008; 63(4):391-8. PMID: 18426963
26. Espinoza S, Guo H, Fedarko N, DeZern A, Fried LP, Xue Q, Leng S, Beamer B, Walston JD. Glutathione peroxidase enzyme activity in aging and inflammation. *J Gerontol A Biol Sci Med Sci*. 2008; 63(5):505-9. PMID: 18426963
27. Punjabi NM, Beamer BA. Alterations in Glucose Disposal in Sleep-disordered Breathing. *Am J Respir Crit Care Med*. 2009 ;179(3):235-40. PMID: 190111482008.
28. Qu T, Walston JD, Yang H, Fedarko NS, Xue Q-L, Beamer BA, Ferrucci L, Rose NR, Leng SX. Upregulated ex vivo expression of stress-responsive inflammatory pathway genes by LPS-challenged CD14+ monocytes in frail older adults. *Mech Ageing Dev*. 2009; 130(3):161-6. PMID: 190277772008
29. Kavathia N, Jain A, Walston J, Beamer BA, Fedarko NS; Serum markers of apoptosis decrease with age and cancer stage. *Aging*; 14;1(7):652-63.2009. PMID: 20157546
30. Spencer ME, Jain A, Matteini A, Beamer BA, Wang NY, Leng SX, Punjabi NM, Walston JD, Fedarko NS; Serum Levels of the Immune Activation Marker Neopterin Change With Age and Gender and Are Modified by Race, BMI, and Percentage of Body Fat.. *J Gerontol A Biol Sci Med Sci*. 2010 May 17. PMID: 20478905
31. Moore AZ, Biggs ML, Matteini A, O'Connor A, McGuire S, Beamer BA, Fallin MD, Fried LP, Walston J, Chakravarti A, Arking DE; Polymorphisms in the mitochondrial DNA control region and frailty in older adults. *PLoS One*. 2010 Jun 10;5(6):e11069. PMID: 20548781

32. Xue QL, Beamer BA, Chaves PH, Guralnik JM, Fried LP. Heterogeneity in Rate of Decline in Grip, Hip, and Knee Strength and the Risk of All-Cause Mortality: The Women's Health and Aging Study II. *J Am Geriatr Soc.* 2010 Nov;58(11):2076-84. PMID: 21054287.
33. Xue QL, Walston JD, Fried LP, Beamer BA. Prediction of Risk of Falling, Physical Disability, and Frailty by Rate of Decline in Grip Strength: The Women's Health and Aging Study. *Arch Intern Med* 2011 Jun 27;171(12):1119-21. PMID: 21709116
34. Ho Y-Y, Matteini AM, Beamer B, Fried L, Xue X-L, Arking DE, Chakravarti A, Fallin MD, Walston J. Exploring Biologically Relevant Pathways in Frailty. *J Gerontol A Biol Sci Med Sci.* 2011 Jul 9. PMID: 21743092
35. Yungher DA, Morgia J, Bair W-N, Inacio M, Beamer BA, Prettyman MG, Rogers MW. Short-term changes in protective stepping for lateral balance recovery in older adults. *Clinical Biomechanics.* 2012 Feb;27(2):151-7. PMID: 22000701
36. Varadhan R, Yao W, Matteini A, Beamer BA, Xue QL, Yang H, Manwani B, Reiner A, Jenny N, Parekh N, Fallin MD, Newman A, Bandeen-Roche K, Tracy R, Ferrucci L, Walston J. Simple Biologically Informed Inflammatory Index of Two Serum Cytokines Predicts 10 Year All-Cause Mortality in Older Adults. *J Gerontol A Biol Sci Med Sci.* 2014 Feb;69(2):165-73. Epub 2013 May 20. PMID:23689826.
37. Inacio M, Ryan AS, Bair WN, Prettyman M, Beamer BA, Rogers MW. Gluteal muscle composition differentiates fallers from non-fallers in community dwelling older adults. *BMC Geriatr.* 2014 Mar 25;14(1):37. PMID: 24666603
38. Addison O, Young P, Inacio M, Bair WN, Prettyman MG, Beamer BA, Ryan AS, Rogers MW. Hip but Not Thigh Intramuscular Adipose Tissue is Associated with Poor Balance and Increased Temporal Gait Variability in Older Adults. *Curr Aging Sci.* 2014 Jul 6;7(2):137-43. PMID: 24998419
39. Xue Q-L, Guralnik JM, Beamer BA, Fried LP, Chaves PHM. Monitoring 6-Month Trajectory of Grip Strength Improves the Prediction of Long-Term Change in Grip Strength in Disabled Older Women. *J Gerontol A Biol Sci Med Sci.* 2015 Mar;70(3):367-73. PMID: 25167868
40. Bair W-N, Prettyman MG, Beamer BA, Rogers MW. Kinematic and behavioral analyses of protective stepping strategies and risk for falls among community living older adults. *Clinical Biomechanics* 2016 Jul;36:74-82. PMID: 27228075.
41. Addison O, Inacio M, Bair W-N, Prettyman M, Beamer BA, Ryan AS, Rogers MW. Role of Hip Abductor Muscle Composition and Torque in Protective Stepping for Lateral Balance Recovery in Older Adults. *Archives of Physical Medicine and Rehabilitation.* [Epub ahead of print: 2016 Nov 10; PMID: 27840133].
42. Orwig D, Mangione KK, Baumgarten M, Terrin M, Fortinsky R, Kenny AM, Gruber-Baldini AL, Beamer B, Tosteson ANA, Shardell M, Magder L, Binder E, Koval K, Resnick B, Craik RL, Magaziner J. Improving Community Ambulation after Hip Fracture: Protocol for a randomized controlled trial comparing two physical therapy interventions *Journal of Physiotherapy.* 2017 Jan;63(1):45-46. PMID: 27964962
43. Singh H, Sanders O, McCombe-Waller S, Bair W-N, Beamer B, Creath RA, Rogers M.

Relationship between head-turn gait speed and lateral balance function in community-dwelling older adults. *Archives of Physical Medicine and Rehabilitation*. 2017 Oct;98(10):1955-1961. Epub 2017 Jun 10. PMID: 28610969.

44. Stuart M, Dromerick AW, Macko R, Benvenuti F, Beamer B, Sorkin J, Chard S, Weinrich M. Adaptive Physical Activity for Stroke: An Early-Stage Randomized Controlled Trial in the United States. *Neurorehabil Neural Repair*. 2019 Aug;33(8):668-680. PubMed PMID: 31296113
45. Magaziner J, Mangione KK, Orwig D, Baumgarten M, Magder L, Terrin M, Fortinsky RH, Gruber-Baldini AL, Beamer BA, Tosteson ANA, Kenny AM, Shardell M, Binder EF, Koval K, Resnick B, Miller R, Forman S, McBride R, Craik RL. Effect of a Multicomponent Home-Based Physical Therapy Intervention on Ambulation After Hip Fracture in Older Adults: The CAP Randomized Clinical Trial. *JAMA*. 2019 Sep 10;322(10):946-956. PubMed PMID: 31503309
46. Landers-Ramos RQ, Addison OAA, Beamer B, Katzel LI, Blumenthal JB, Robinson S, Hagberg JM, Prior SJ. Circulating microparticle concentrations across acute and chronic cardiovascular disease conditions. *Physiol Rep*. 2020 Aug;8(15). PMID: 32748505.
47. Pizac DA, Savin DN, Orwig D, Gruber-Baldini A, Creath R, Conroy V, Hochberg M, Beamer BA, Magaziner J, Rogers MW. Neurocognitive measures predict voluntary stepping performance in older adults post-hip fracture. *ClinBioMech* 2021 Jan;81:105234. PMID: 33213932.
48. Hsiao HY, Creath RA, Sanders O, Inacio M, Beamer BA, Rogers MW. Acoustic Pre-stimulation Modulates Startle and Postural Reactions during Sudden Release of Standing Support Surface in Aging. *HumMovSci*. 2020 Dec;74:102715. PMID: 33227568
49. Rogers MW, Creath RA, Gray V, Abarro J, McCombe Waller S, Beamer BA, Sorkin JD, MD, PhD. Comparison of Lateral Perturbation-Induced Step Training and Hip Muscle Strengthening Exercise on Balance and Falls in Community Dwelling Older Adults: A Blinded Randomized Controlled Trial. *J Gerontol A Biol Sci Med Sci* 2021 Jan 25;glab017. PMID: 33491052.
50. Mangione KK, Posner MA, Craik RL, Wolff EF, Fortinsky RH, Beamer BA, Binder EF, Orwig DL, Magaziner J, Resnick B. Using Treatment Fidelity Measures to Understand Walking Recovery: A Secondary Analysis from the Community Ambulation Project. *Phys Ther* 2021 Apr 5. PMID: 33823028.
51. Mutchie HL, Orwig DL, Beamer B, Conroy V, Guralnik J, Magaziner J, Gruber-Baldini AL. Four Square Step Test Performance in Hip Fracture Patients. *J Geriatr Phys Ther*. 2022 Apr-Jun. PMID: 33935219.
52. Falvey, JR, Ye, JZ, Parker, EA, Beamer, BA, & Addison, O. Rehabilitation Outcomes Among Frail Older Adults in the United States. *Int J Environ Res Public Health*. 2022 Sep 3;19(17):11021. PMID: 36078737.
53. Soliman G, Fortinsky RH, Mangione K, Beamer BA, Magder L, Binder EF, Craik R, Gruber-Baldini A, Orwig D, Resnick B, Wakefield DB, Magaziner J. Impact of psychological resilience on walking capacity in older adults following hip fracture. *J Am Geriatr Soc*. 2022 Nov;70(11):3087-3095. PMID: 35856155
54. Dondero KR, Falvey JR, Beamer BA, Addison O. Geriatric Vulnerabilities Among Obese

Older Adults With and Without Sarcopenia: Findings From a Nationally Representative Cohort Study. *J Geriatr Phys Ther.* 2022 Jul-Sep 01;46(3):168-173. PMID: 35981333

55. Huang MZ, Rogers MW, Pizac D, Gruber-Baldini AL, Orwig D, Hochberg MC, Beamer BA, Creath RA, Savin DN, Conroy VM, Mangione KK, Craik R, Zhang LQ, Magaziner J. Effect of Multicomponent Home-Based Training on Gait and Muscle Strength in Older Adults After Hip Fracture Surgery: A Single Site Randomized Trial. *Arch Phys Med Rehabil.* 2023 Feb;104(2):169-178. PMID: 36087806

56. Davis DL, Almardawi R, Beamer BA, Ryan AS, Terrin ML. Shoulder pain, health-related quality of life and physical function in community-dwelling older adults. *Front Aging.* 2023 Jul 6;4:1176706. PMID: 37483647

Peer-reviewed Book Chapters, Review Articles, Letters, Editorials

1. **Beamer BA.** "Frailty". *ACE Clinical Exercise Specialist Manual.* ch 27; San Diego, CA, American Council on Exercise Publ. Cotton RT and Andersen RE, ed. 1999.
2. **Beamer BA.** "Exercise to Prevent and Treat Diabetes Mellitus". *Physician and Sportsmedicine,* 2000; 28(10):85-86.
3. **Beamer BA.** "Genetic Influences on Obesity". *Obesity: Etiology, Treatment and Prevention.* ch 4; Champaign, IL, Human Kinetics Publ. RE Andersen, ed. 2003.
4. Punjabi NM, **Beamer BA.** "Sleep Apnea and Glucose Metabolism"; *Principles and Practice of Sleep Medicine.* ch 86, Philadelphia, PA, Elsevier Press, Publ; Kryger MH, Roth T, Dement WC, ed. 2005.
5. Punjabi NM, Ahmed MM, Polotsky VY, **Beamer BA**, O'Donnell CP. "Metabolic Consequences Of Intermittent Hypoxia"; *Hypoxia And The Circulation.* ch4, Springer, US, Roach RC, Wagner PD Hackett PH, ed, 2008.
6. Polak J, **Beamer BA**, Punjabi NM. "Obstructive sleep apnea and glucose metabolism". *Sleep Apnea: Pathogenesis, Diagnosis and Treatment, Second Edition.* Ch. 14. Informa Healthcare, Publ; Pack AI, ed. 2011.
7. Blumenthal JB, **Beamer BA.** "More on an Unconscious Patient with a DNR Tattoo". *N Engl J Med.* 2018 Mar 1;378(9):875-6. PMID: 29504725.
8. Kheirbek RE, Beamer BA. Incarcerated Older Adults in the Coronavirus Disease 2019 Era: A Call for Advancing Health and Human Dignity. *Public Policy Aging Rep.* 2022 Oct 17;32(4):149-152. PMID: 36276436.